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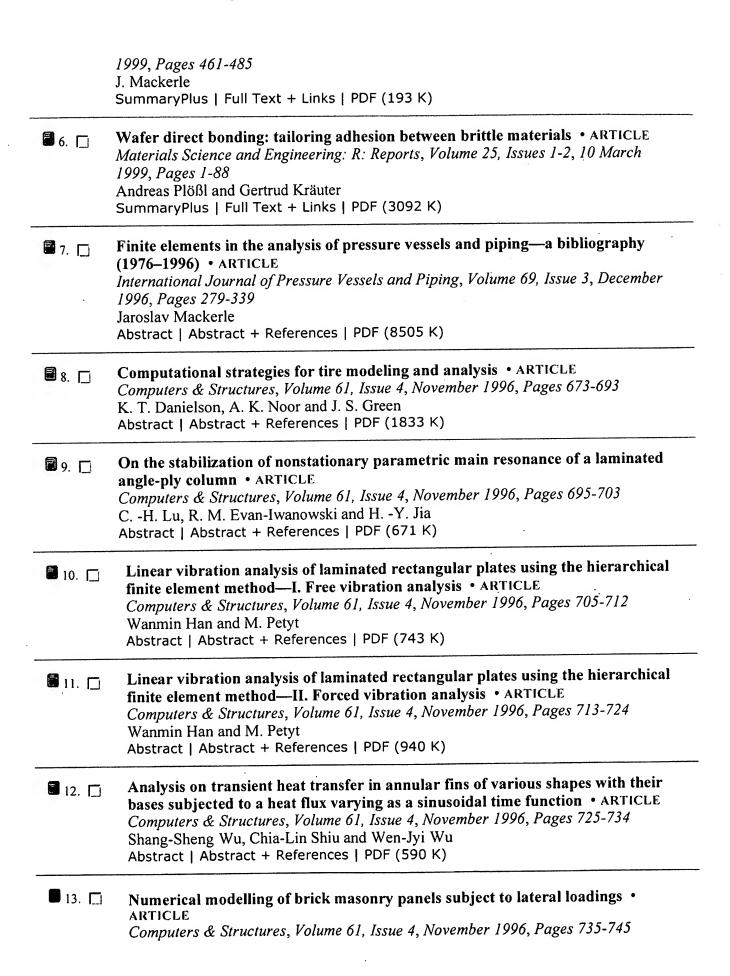
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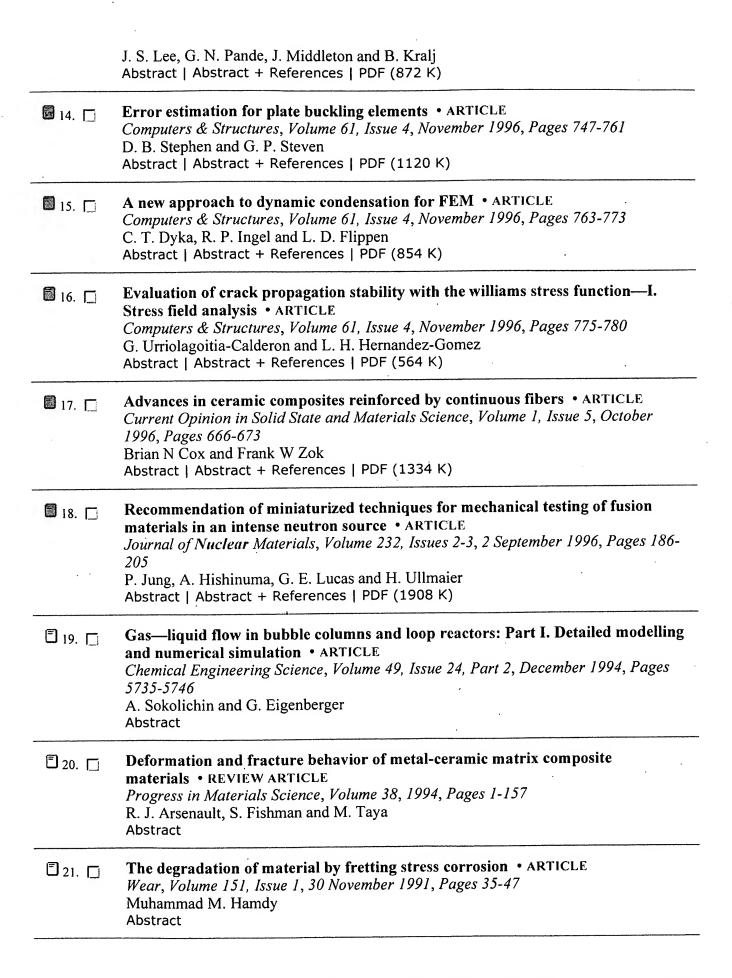
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2.	Fretting wear of laterally supported tube • ARTICLE Wear, Volume 250, Issues 1-12, October 2001, Pages 535-543 Hyung-Kyu Kim, Seon-Jae Kim, Kyung-Ho Yoon, Heung-Seok Kang and Kee-Nam Song SummaryPlus Full Text + Links PDF (444 K)
3.	Post-orogenic (<1500 Ma) thermal history of the Proterozoic Eastern Fold Belt, Mount Isa Inlier, Australia • ARTICLE Precambrian Research, Volume 109, Issues 1-2, 15 June 2001, Pages 103-144 R. A. Spikings, D. A. Foster, B. P. Kohn and G. S. Lister SummaryPlus Full Text + Links PDF (914 K)
4. 🗖	Towards an improved understanding of glass transition and relaxations in foods: molecular mobility in the glass transition range • ARTICLE Trends in Food Science & Technology, Volume 11, Issue 2, February 2000, Pages 41-55 Dominique Champion, Martine Le Meste and Denise Simatos SummaryPlus Full Text + Links PDF (370 K)
5.	Finite elements in the analysis of pressure vessels and piping, an addendum (1996–1998) • ADDENDUM International Journal of Pressure Vessels and Piping, Volume 76, Issue 7, June





□ 22. □	Refined numerical modelling in thermal-hydraulic analysis • ARTICLE Nuclear Engineering and Design, Volume 124, Issue 3, December 1990, Pages 339- 361 P. L. Viollet, D. Grand, J. P. Chabard and J. P. Magnaud Abstract
23.	Potential and problems of animal cells in suspension culture • SHORT SURVEY Journal of Biotechnology, Volume 15, Issues 1-2, July 1990, Pages 1-46 Christian H. Leist, Hans-Peter Meyer and Armin Fiechter Abstract
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1 Abstracts—nuclear reactor codes

Virginia Nather, Ward Sangren

January 1959 Communications of the ACM, Volume 2 Issue 1

window

Publisher: ACM Press

Full text available: pdf(3.51 MB)

Additional Information: full citation

2 Vector and parallel processing of the nuclear reactor transient analysis code RELAPS

M. Ishiguro, M. Makino, N. Shinozawa

November 1988 Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88

Publisher: IEEE Computer Society Press

Full text available: 📆 pdf(720.07 KB) Additional Information: full citation, abstract, references, index terms

An experiment of vector processing and multi-tasking of nuclear reactor transient analysis code RELAP5 has been made at Japan Atomic Energy Research Institute. Vector processing and multi-tasking of the RELAP5 were achieved by using the independency of the spatial meshes. The vectorization ratio is 83% The performance ratio in the vector mode to that in the scalar mode is about 3 on the FACOM VP-100. For multi-tasking, the spatial meshes are halfed and each group of meshes is processed on d ...

3 NUFACTS: A tool for the analysis of nuclear development policies

Mark B. Triplett, Theodore L. Willke, John D. Waddell

January 1977 Proceedings of the 9th conference on Winter simulation - Volume 2 WSC '77

Publisher: Winter Simulation Conference

Full text available: 📆 pdf(582.16 KB) Additional Information: full citation, abstract, references, index terms

NUFACTS, the Nuclear Fuel Cycle Activity Simulator, is a combined continuous/discrete simulation of the nuclear power economy. This model has been useful in the evaluation of nuclear development policies as it projects the economic and resource impacts attributable to a given policy. A recent application of NUFACTS has involved the economic evaluation of plutonium recycle options in light-water reactors. Based upon the GASP IV simulation language, NUFACTS provides a highly flexib ...

4	Abstracts— additional nuclear reactor codes Virgina Nather, Ward Sangren	
	January 1960 Communications of the ACM, Volume 3 Issue 1	
	Publisher: ACM Press	
	Full text available: pdf(940.91 KB) Additional Information: full citation	
5	The role of computer systems in the nuclear power debate Kevin W. Bowyer	
	April 1980 ACM SIGCAS Computers and Society, Volume 10 Issue 3-4	
	Publisher: ACM Press	
	Full text available: pdf(489.92 KB) Additional Information: full citation, abstract, references	
	One of the primary reasons for the current "decline" of nuclear power is that reactors have not operated reliably. This unreliability has raised questions of both safety and economics. Computer systems have been a part of this failure of technology. If nuclear power is to be revived as an energy option for our country, both the quantity and quality of computer applications must increase.	
6	A diagnostic expert system for analyzing multiple-failure transients in nuclear power plants	
	Robert P. Martin. B. Nassersharif	
	June 1988 Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems -	
	Volume 1 IEA/AIE '88	
	Publisher: ACM Press	
	Full text available: pdf(515.98 KB) Additional Information: full citation, abstract, references, index terms	
	CATALISP (Computer Aided Transient Analysis coded in Lisp) is a prototype expert system which is the result of a project investigating and implementing event confidence-levels (used by reactor safety experts in reactor transient analysis) in the form of an expert system. Currently, CATALISP is designed to diagnose reactor transients by analyzing simulated sensor and plant thermal hydraulic information from a system simulation. CATALISP uses a knowledge base of existing emergency nuclear pla	
7	A combined simulation model of the nuclear fuel cycle	
-	E. L. DePorter, Harold A. Kurstedt, Joel A. Nachlas December 1977 Proceedings of the 9th conference on Winter simulation - Volume 1 WSC '77	
	Publisher: Winter Simulation Conference	
	Full text available: pdf(327.18 KB) Additional Information: full citation, abstract, references, index terms	
	Strategies for dealing effectively with the complex nuclear fuel cycle are needed to assure the availability of the required nuclear energy portion of U.S. energy supplies. The vertical integration approach to assuring uranium fuel supplies is achieved through control or ownership of fuel cycle stages. Global system analysis is facilitated by identifying crucial control points in the fuel cycle. A GASP IV simulation model of the production and inventories of the sequentially prod	
8	Highly vectorized algorithm for transient simulation of space reactor systems	
•	B. Nassersharif, J. S. Peery, M. D. DeHart	
	November 1988 Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88	
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Results (page 1): nuclear reactor and (spring<paragraph>stress) and (stress<sentence>she... Page 2 of 6

Current interest in the application of nuclear reactor driven power systems to space missions has generated a need for an accurate systems model which is capable of handling the nonlinear transient simulation of such systems [1],[2]. A project to develop a code specifically designed to model and analyze space reactor systems is currently ongoing at Texas A&M. This code, named CENTAR (Code for Extended Nonlinear Transient Analysis of Extraterrestrial Reactors [3],[4]), is written especia ...

	Extraterrestrial Reactors [3],[4]), is written especia	
9	GASP IV simulation of nuclear waste Jeffery Lee Turek, Elden L. Deporter, Harold A. Kurstedt, Charles E. Rasbach, Steven K. Funk January 1981 Proceedings of the 13th conference on Winter simulation - Volume 1 WSC '81	
	Publisher: IEEE Press Full text available: pdf(521.33 KB) Additional Information: full citation, abstract, citings, index terms	
	The current governmental research and development program for the disposition of high-level nuclear wastes from both defense and commercial sources is modelled using a discrete GASP IV based simulation. The simulation utilizes, as input, actual and current data from various DOE management information systems. A sampling of disposition data contained within these systems are milestones, storage facility capacities, and predecessor and successor relations. Decision variables include facility	
10	Nuclear power plant diagnostics in APL	
	Alexander O. Skomorokhov July 1991 ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL '91 APL '91, Volume 21 Issue 4 Publisher: ACM Press	
	Full text available: pdf(903.20 KB) Additional Information: full citation, abstract, references, citings, index terms	
	We are interested in the development of Nuclear Power Plant (NPP) diagnostic systems and other complex systems of data processing. There are some questions on the subject: How to build these systems easily? How to build them fast? How to build them at a low price? And how to build them to be user friendly? Today, from our point of view, in the area of Nuclear Power Plant diagnostics, there is only one answer to these questions: We must use APL.	
11	Genetic algorithms: Application of genetic algorithm to optimize burnable poison	
٩	placement in pressurized water reactors	
~	Serkan Yilmaz, Kostadin Ivanov, Samuel Levine June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05 Publisher: ACM Press	
	Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, index terms	
	An efficient and a practical genetic algorithm tool was developed and applied successfully to Burnable Poisons (BPs) placement optimization problem in the reference Three Mile Island-1 (TMI-1) core. Core BP optimization problem means developing a BP loading map for a given core loading configuration that minimizes the total Gadolinium (Gd) amount in the core without violating any design constraints. The number of UO2/Gd2O3 pins and Gd2O3 con	
٠	Keywords : burnable poison, decision variables, gadolinium, genetic algorithm, nuclear, optimization, reactor	
12	Procedure writing across domains: nuclear power plant procedures and computer documentation	

Additional Information: full citation, abstract, references, citings, index

June 1986 ACM Computing Surveys (CSUR), Volume 18 Issue 2

16 Software safety: why, what, and how

Nancy G. Leveson

Publisher: ACM Press

Full text available: pdf(4.18 MB)

terms, review

Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics.

17	Computer based systems in boiling water reactors	
(2)	J. N. Shukla, J. A. Iubelt April 1980 ACM SIGCAS Computers and Society , Volume 10 Issue 3-4	
	Publisher: ACM Press Full text available: pdf(474.71 KB) Additional Information: full citation, abstract	
	This paper describes the application of computers to the General Electric Company's Boilling Water Reactor (BWR) type nuclear power plants. In the GE BWR plants, computers are used for Real Time Process Monitoring, Nuclear Steam Supply Systemn Performance and Core Limit Evaluation, Balance of Plant Performance Evaluation, Historical Recording, and Control Rod Pattern Enforcement. These functions are performed by different systems and subsystems each consisting of one or more computers. This pape	
18	Homeland security/emergency response: simulation for response: Training first	
	responders to nuclear facilities using 3-D visualization technology	
	Robert L. Sanders, Joseph E. Lake December 2005 Proceedings of the 37th conference on Winter simulation WSC '05	
	Publisher: Winter Simulation Conference	
	Full text available: pdf(509.67 KB) Additional Information: full citation, abstract, references	
	The development of an advanced visualization and simulation tool for first responder exercises and education is presented. This tool exploits cutting edge computer graphics, physics-based effects modeling, virtual reality, and gaming technologies to establish a system that can eventually be used for the administrative planning and training of first responders in homeland security, homeland defense, and combating terrorism communities.	
19	The impact of query structure and query expansion on retrieval performance	
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	Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms	
20	Programanalysis - A method for the verification of software for the control of a	
	nuclear reactor W. Ehrenberger, G. Rauch, K. Okroy	
	October 1976 Proceedings of the 2nd international conference on Software	
	engineering ICSE '76 Publisher: IEEE Computer Society Press	
	Full text available: pdf(394.95 KB) Additional Information: full citation, abstract, references, index terms	
	The number of tests, which are necessary to prove the performance of a program, can be reduced to an executable number, if the structure of the program is investigated. The analysis starts from the memory dump. The program is first divided into those pieces, which are without labels or branchings. Then the mappings of the program and their input and output areas are identified, further those areas which influence branchings. The next	

Results (page 1): nuclear reactor and (spring<paragraph>stress) and (stress<sentence>she... Page 6 of 6

step states, which ranges of values in the individual are ...

Keywords: Process computers, Program analysis, Program testing, Reactor safety, Software reliability, User programs, Verification

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The role of computer systems in the nuclear power debate

Kevin W. Bowyer

April 1980 ACM SIGCAS Computers and Society, Volume 10 Issue 3-4

Publisher: ACM Press

Full text available: pdf(489.92 KB) Additional Information: full citation, abstract, references

One of the primary reasons for the current "decline" of nuclear power is that reactors have not operated reliably. This unreliability has raised questions of both safety and economics. Computer systems have been a part of this failure of technology. If nuclear power is to be revived as an energy option for our country, both the quantity and quality of computer applications must increase.

2 Abstracts— additional nuclear reactor codes

Virgina Nather, Ward Sangren

January 1960 Communications of the ACM, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(940.91 KB) Additional Information: full citation

3 Abstracts—nuclear reactor codes

Virginia Nather, Ward Sangren

January 1959 Communications of the ACM, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(3.51 MB)

Additional Information: full citation

A preprocessor for structural analysis programs



Peter K. Ho

June 1976 Proceedings of the 13th conference on Design automation DAC '76

Publisher: ACM Press

Full text available: pdf(589.56 KB) Additional Information: full citation, abstract, references, index terms

This preprocessor generates and updates input data on the geometry and properties of a structure and its foundation, and on gravity, seismic and other loadings.

The applied mathematics laboratory of the David W. Taylor Model Basin

Morris Richstone

September 1961 Communications of the ACM, Volume 4 Issue 9

Publisher: ACM Press

Full text available: pdf(1.47 MB)

Additional Information: full citation, references, index terms

Computer system reliability and nuclear war

Alan Borning

February 1987 Communications of the ACM, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(2.50 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

Given the devastating consequences of nuclear war, it is appropriate to look at current and planned uses of computers in nuclear weapons command and control systems, and to examine whether these systems can fulfill their intended roles.

7 A systematic approach to the development and validation of critical software for nuclear power plants



Publisher: IEEE Press

Full text available: pdf(911.14 KB) Additional Information: full citation, abstract, references, index terms

The power industry is becoming increasingly interested in the use of digital computers within nuclear plant protection systems in order to satisfy increased safety requirements, provide greater operating flexibility, minimize spurious forced outages, and (in conjunction with multiplexing) to meet separation requirements. However, the development and licensing of digital safety systems has been hindered to date by the difficulty of validating the software. A methodology is propose ...

Highly vectorized algorithm for transient simulation of space reactor systems B. Nassersharif, J. S. Peery, M. D. DeHart

November 1988 Proceedings of the 1988 ACM/IEEE conference on Supercomputing **Supercomputing '88**

Publisher: IEEE Computer Society Press

Full text available: 🔁 pdf(765.38 KB) Additional Information: full citation, abstract, references, index terms

Current interest in the application of nuclear reactor driven power systems to space missions has generated a need for an accurate systems model which is capable of handling the nonlinear transient simulation of such systems [1],[2]. A project to develop a code specifically designed to model and analyze space reactor systems is currently ongoing at Texas A&M. This code, named CENTAR (Code for Extended Nonlinear Transient Analysis of Extraterrestrial Reactors [3],[4]), is written especia ...

Illustrative risks to the public in the use of computer systems and related technology



Peter G. Neumann

January 1996 ACM SIGSOFT Software Engineering Notes, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(2.54 MB) Additional Information: full citation 10 Illustrative risks to the public in the use of computer systems and related technology

🖍 Peter G. Neumann

January 1994 ACM SIGSOFT Software Engineering Notes, Volume 19 Issue 1

Publisher: ACM Press

Full text available: pdf(2.24 MB)

Additional Information: full citation, citings, index terms

11 Illustrative risks to the public in the use of computer systems and related technology



Peter G. Neumann

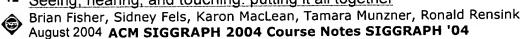
January 1992 ACM SIGSOFT Software Engineering Notes, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(1.65 MB)

Additional Information: full citation, citings, index terms

12 Seeing, hearing, and touching: putting it all together



Publisher: ACM Press

Full text available: pdf(20.64 MB) Additional Information: full citation

13 Software safety in embedded computer systems



February 1991 Communications of the ACM, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(2.83 MB)

Additional Information: full citation, references, citings, index terms

14 The development of the SIMULA languages



Kristen Nygaard, Ole-Johan Dahl

January 1978 ACM SIGPLAN Notices, The first ACM SIGPLAN conference on History of programming languages HOPL-1, Volume 13 Issue 8

Publisher: ACM Press

Full text available: pdf(2.83 MB)

Additional Information: full citation, abstract, references, citings, index

terms

The organizers of this conference have told us that we should write at least 25 pages of manuscript, but that we may produce as many pages more as we wanted. Perhaps they did not envisage the possible consequences, but we have taken their words at face value. This paper has implied a vast amount of work and archeological activities. We are grateful to SIGPLAN for defining a task to which resources had to be allocated by our institutions and which forced us to write down an accoun ...

15 The expanding world of computers



E. L. Harder

April 1968 Communications of the ACM, Volume 11 Issue 4

Publisher: ACM Press

Full text available: pdf(2.70 MB)

Additional Information: full citation, abstract

The onward sweep of automatic processing of information is impeded by nine principal barriers: geography, cost, problem complexity, man-machine communication, inadequate sensors, lack of understanding, distance, time, and size. The main incentive for breaching

these barriers is the universal need for processing information, ever more urgent as the greater part of human work activity changes from production to service. Computer developments in hardware, programming, time-sharing, ...

Keywords: barriers, computer science, computer-aided design, data communication, developments, education, forecast, introduction, philosophy, problem-oriented languages, survey

16 Advanced topics on clothing simulation and animation: Robust treatment of collisions,





contact and friction for cloth animation

Robert Bridson, Ronald Fedkiw, John Anderson

July 2005 ACM SIGGRAPH 2005 Courses SIGGRAPH '05

Publisher: ACM Press

Full text available: 🔁 pdf(279.40 KB) Additional Information: full citation, abstract, references, index terms

We present an algorithm to efficiently and robustly process collisions, contact and friction in cloth simulation. It works with any technique for simulating the internal dynamics of the cloth, and allows true modeling of cloth thickness. We also show how our simulation data can be post-processed with a collision-aware subdivision scheme to produce smooth and interference free data for rendering.

Keywords: cloth, collision detection, collision response, contacts, kinetic friction, physically based animation, static friction

17 Robust treatment of collisions, contact and friction for cloth animation





Robert Bridson, Ronald Fedkiw, John Anderson

July 2002 ACM Transactions on Graphics (TOG), Proceedings of the 29th annual conference on Computer graphics and interactive techniques SIGGRAPH '02, Volume 21 Issue 3

Publisher: ACM Press

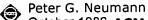
Full text available: pdf(3.74 MB)

Additional Information: full citation, abstract, references, citings, index terms

We present an algorithm to efficiently and robustly process collisions, contact and friction in cloth simulation. It works with any technique for simulating the internal dynamics of the cloth, and allows true modeling of cloth thickness. We also show how our simulation data can be post-processed with a collision-aware subdivision scheme to produce smooth and interference free data for rendering.

Keywords: cloth, collision detection, collision response, contacts, kinetic friction, physically based animation, static friction

18 Risks to the public in computer systems

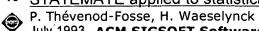


October 1986 ACM SIGSOFT Software Engineering Notes, Volume 11 Issue 5

Publisher: ACM Press

Full text available: pdf(2.19 MB) Additional Information: full citation, index terms

19 STATEMATE applied to statistical software testing



July 1993 ACM SIGSOFT Software Engineering Notes, Proceedings of the 1993 ACM

SIGSOFT international symposium on Software testing and analysis ISSTA

'93, Volume 18 Issue 3

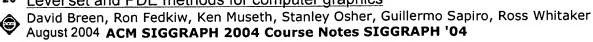
Publisher: ACM Press

Full text available: pdf(1.31 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper is concerned with the use of statistical testing as a verification technique for complex software. Statistical testing involves exercising a program with random inputs, the test profile and the number of generated inputs being determined according to criteria based on program structure or software functionality. In case of complex programs, the probabilistic generation must be based on a black box analysis, the adopted criteria being defined from behavior model ...

20 Level set and PDE methods for computer graphics



Publisher: ACM Press

Full text available: pdf(17.07 MB) Additional Information: full citation, abstract, citings

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

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Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(20.64 MB) Additional Information: full citation

Computer system reliability and nuclear war

Alan Borning

February 1987 Communications of the ACM, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(2.50 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

Given the devastating consequences of nuclear war, it is appropriate to look at current and planned uses of computers in nuclear weapons command and control systems, and to examine whether these systems can fulfill their intended roles.

3 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Additional Information: full citation, abstract, citings Full text available: pdf(17.07 MB)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

Abstracts— additional nuclear reactor codes

Virgina Nather, Ward Sangren

January 1960 Communications of the ACM, Volume 3 Issue-1

Publisher: ACM Press

Full text available: 🔁 pdf(940.91 KB) Additional Information: full citation

5 Special issue: Al in engineering

D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

6 On building systems that will fail

🊗 Fernando J. Corbató

September 1991 Communications of the ACM, Volume 34 Issue 9

Publisher: ACM Press

Full text available: pdf(1.02 MB)

Additional Information: full citation, references, citings, index terms,

review

7 Final report of the GSPC state-of-the-art subcommittee

R. H. Ewald, R. Fryer
June 1978 ACM SIGGRAPH Computer Graphics, Volume 12 Issue 1-2

Publisher: ACM Press

Full text available: Ddf(7.85 MB) Additional Information: full citation, abstract

This paper presents the final report of the ACM/SIGGRAPH Graphics Standards Planning Committee (GSPC) State-of-the-Art Subcommittee. This group's charter was to compare existing vector-oriented graphics packages to determine their similarities and differences. Eight graphics packages and the GSPC "Core System" were selected for review.

8 Collision detection and proximity queries

Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(11.22 MB) Additional Information: full citation, abstract

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

9 Numerical computations: its nature and research directions

J. R. Rice, C. W. Gear, J. Ortega, B. Parlett, M. Schultz, L. F. Shampine, P. Wolfe, J. F. Traub February 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue si-1

Publisher: ACM Press

Full text available: pdf(4.43 MB) Additional Information: full citation, abstract, references, citings

This report on research in numerical computation is part of the Computer Science and Engineering Research Study (COSERS) which is aimed at technically educated people

outside the Computer Science field. This goal led the panel to face many difficult choices between precise, but excessively technical, descriptions and looser, but more accessible expositions. The panel hopes that all readers will keep this in mind.

10 �	The elements of nature: interactive and realistic techniques Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04 Publisher: ACM Press Full text available: pdf(17.65 MB) Additional Information: full citation, abstract This updated course on simulating natural phenomena will cover the latest research and	
	production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni	
11	Digital control of industrial processes	
•	September 1970 ACM Computing Surveys (CSUR), Volume 2 Issue 3	
	Publisher: ACM Press	
	Full text available: pdf(2.11 MB) Additional Information: full citation, references, citings, index terms	
12	Simulation documents available: from NTIS	
٩	Tuncer I. Oren	
~	January 1975 ACM SIGSIM Simulation Digest, Volume 6 Issue 2-3	
	Publisher: ACM Press	
	Full text available: pdf(1.06 MB) Additional Information: full citation, abstract	
	The NTIS (National Technical Information Service) collection includes (i) Government-sponsored research and development reports, (ii) Government analyses prepared by Federal agencies, their contractors or grantees, (iii) Federally sponsored translations, and (iv) some reports written in foreign languages. The NTIS reports exist in paper copy or in microfiche unless otherwise specified and are available indefinitely. To order the documents contact: NTIS, P.O. Box 1552, Springfield, Virginia 22151	
13	Illustrative risks to the public in the use of computer systems and related technology	
	Peter G. Neumann	
(4)	January 1994 ACM SIGSOFT Software Engineering Notes, Volume 19 Issue 1	
	Publisher: ACM Press	
	Full text available: pdf(2.24 MB) Additional Information: full citation, citings, index terms	
	*	
14	Abstracts—nuclear reactor codes	
٩	Virginia Nather, Ward Sangren	
4	January 1959 Communications of the ACM, Volume 2 Issue 1	

Publisher: ACM Press

Full text available: pdf(3.51 MB)

Additional Information: full citation

•	Electronic Computers: A Historical Survey Saul Rosen	
	March 1969 ACM Computing Surveys (CSUR), Volume 1 Issue 1	
	Publisher: ACM Press Full text available: pdf(2.45 MB) Additional Information: full citation, references, citings, index terms	
16	Illustrative risks to the public in the use of computer systems and related technology Peter G. Neumann January 1992 ACM SIGSOFT Software Engineering Notes, Volume 17 Issue 1	
	Full text available: pdf(1.65 MB) Additional Information: full citation, citings, index terms	
17	Computer technology in communist China, 1956-1965 Donald G. Audette	
	September 1966 Communications of the ACM, Volume 9 Issue 9	
	Publisher: ACM Press Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references	
	Based on information from translations of Communist Chinese news items and periodical literature for the 1956 through 1965 period, computer technology in China is reviewed under the following headings: (1) initial planning, organization and educational aspects of computer technology and automation; 2) machine development progress: two major specific machines in 1958-59, with Soviet aid; a vacuum in 1960-64 due to the withdrawal of Soviet aid; then presumably all-Chinese-made machines from 1	
18	Uiuk dumamia sanga imaging	
(a)	High dynamic range imaging Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04	
	Publisher: ACM Press	
	Full text available: pdf(20.22 MB) Additional Information: full citation, abstract	
	Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor	
19	Special issue on knowledge representation	
•	Ronald J. Brachman, Brian C. Smith February 1980 ACM SIGART Bulletin, Issue 70	
	Publisher: ACM Press	
	Full text available: pdf(13.13 MB) Additional Information: full citation, abstract, citings	
	In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon	

20 The development of the SIMULA languages

Kristen Nygaard, Ole-Johan Dahl

January 1978 ACM SIGPLAN Notices , The first ACM SIGPLAN conference on History of programming languages HOPL-1, Volume 13 Issue 8

Publisher: ACM Press

Full text available: pdf(2.83 MB)

Additional Information: full citation, abstract, references, citings, index terms

The organizers of this conference have told us that we should write at least 25 pages of manuscript, but that we may produce as many pages more as we wanted. Perhaps they did not envisage the possible consequences, but we have taken their words at face value. This paper has implied a vast amount of work and archeological activities. We are grateful to SIGPLAN for defining a task to which resources had to be allocated by our institutions and which forced us to write down an accoun ...

Results 1 - 20 of 200

Result page: **1** $\frac{2}{2}$ $\frac{3}{4}$ $\frac{4}{5}$ $\frac{6}{6}$ $\frac{7}{7}$ $\frac{8}{9}$ $\frac{9}{10}$

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	L6	nuclear and reactor and fuel and spring? and shear\$ and stress	66
	L5	L3 and (spring? same shear\$ stress\$)	· 1
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	L3	nuclear reactor and spring	3248
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	L1	("4826648" "5076995")!.PN.	2

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1. Document ID: US 20060165208 A1

L4: Entry 1 of 2

File: PGPB

Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060165208

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060165208 A1

TITLE: Method for designing a nuclear fuel assembly with damping guide tube

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Callens; Catherine

Lyon

FR

Segura; Helene .

Lyon

FR

US-CL-CURRENT: 376/234

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMAC	Drawi De
	- 7007											

☐ 2. Document ID: US 20050157835 A1

L4: Entry 2 of 2

File: PGPB

Jul 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050157835

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050157835 A1

TITLE: Method for designing a spider spring of a bundle controlling a nuclear fuel

assembly, corresponding system, computer programme and product

PUBLICATION-DATE: July 21, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Callens, Catherine Lyon FR Segura, Helene Lyon FR

US-CL-CURRENT: <u>376/327</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 4879899 A

L5: Entry 1 of 1

File: USPT

Nov 14, 1989

US-PAT-NO: 4879899

DOCUMENT-IDENTIFIER: US 4879899 A

TITLE: Shear stress gauge

DATE-ISSUED: November 14, 1989

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Leehey; Patrick

Swampscott

MA

US-CL-CURRENT: 73/147

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File: PGPB

Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060165208

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060165208 A1

TITLE: Method for designing a nuclear fuel assembly with damping guide tube

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Callens; Catherine Lyon FR Segura; Helene Lyon FR

US-CL-CURRENT: <u>376/234</u>

tion Front Review Classification Date Reference Sequences At	ttachments Claims KWC Dra

2. Document ID: US 20060041448 A1

L7: Entry 2 of 8

File: PGPB

Feb 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060041448

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060041448 A1

TITLE: Number of new and unique manufacturing and assembley methods and processes to cost effectively refit and market legacy implements like "The Gilhoolie"

presently names "The Wili Grip" TM

PUBLICATION-DATE: February 23, 2006

INVENTOR-INFORMATION:

STATE COUNTRY CITY NAME Potomac MD US Patterson; Robbie Lynne US Stephens; Richard Lewis JR. Silver Spring MD Waldorf MD US Walker; Richard C.

US-CL-CURRENT: 705/1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 3. Document ID: US 20050157835 A1

L7: Entry 3 of 8

File: PGPB

Jul 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050157835

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050157835 A1

TITLE: Method for designing a spider spring of a bundle controlling a nuclear fuel

assembly, corresponding system, computer programme and product

PUBLICATION-DATE: July 21, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Callens, Catherine Lyon FR
Segura, Helene Lyon FR

US-CL-CURRENT: <u>376/327</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 4. Document ID: US 5742653 A

L7: Entry 4 of 8

File: USPT

Apr 21, 1998

US-PAT-NO: 5742653

DOCUMENT-IDENTIFIER: US 5742653 A

TITLE: Vertical and lateral restraint stabilizer for core shroud of boiling water

<u>reactor</u>

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Erbes; John Geddes Mt. View CA Charnley; James Edward Nevada City CA Kobsa; Irvin Raymond San Jose CA

US-CL-CURRENT: 376/302; 376/285

Full Title Citation Front Review Classification Date Reference Resources Claims KMC Draw De

☐ 5. Document ID: US 5182484 A

L7: Entry 5 of 8

File: USPT

Jan 26, 1993

Page 3 of 5 Record List Display

US-PAT-NO: 5182484

DOCUMENT-IDENTIFIER: US 5182484 A

TITLE: Releasing linear actuator

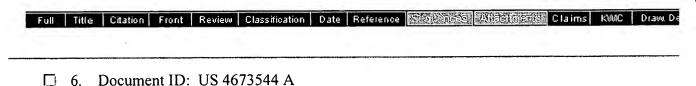
DATE-ISSUED: January 26, 1993

INVENTOR-INFORMATION:

CITY STATE. ZIP CODE COUNTRY NAME

Culp; Gordon W. Van Nuys

US-CL-CURRENT: 310/328



File: USPT

CA

US-PAT-NO: 4673544

L7: Entry 6 of 8

DOCUMENT-IDENTIFIER: US 4673544 A

TITLE: Pushing device for sliding fuel rods out of a nuclear reactor fuel assembly

DATE-ISSUED: June 16, 1987

INVENTOR-INFORMATION:

CITY NAME

STATE

ZIP CODE

COUNTRY

Jun 16, 1987

Rohr; Franz

Erlangen

DE

US-CL-CURRENT: 376/261; 198/719, 29/723, 376/268, 376/271, 976/DIG.274

Full Title	2 Citation	Front	Review	Classification	Date	Reference	Security y	Mit arm, rie	Claims	KWC	Draw D
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	Daguman	+ ID.	110 44	11862 A							
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US-PAT-NO: 4411862

DOCUMENT-IDENTIFIER: US 4411862 A

** See image for Certificate of Correction **

TITLE: Spacer grating for <u>fuel</u> element in a <u>nuclear reactor</u>

DATE-ISSUED: October 25, 1983

INVENTOR-INFORMATION:

COUNTRY ZIP CODE CITY STATE NAME

St. Didier FR Leclercq; Joseph

Le Pargneux; Jacques Lyons Feutrel; Claude

Vauhallan

FR

Lestiboudois; Guy

Paris

FR

Chantant; Michel

Bois d'Arcy

FR

US-CL-CURRENT: <u>376/442</u>; <u>376/441</u>, <u>976/DIG.71</u>, <u>976/DIG.77</u>, <u>976/DIG.81</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Extransia.	Alberticits	Claims	KOMC	Drawt D

□ 8. Document ID: US 4297324 A

L7: Entry 8 of 8

File: USPT

Oct 27, 1981

US-PAT-NO: 4297324

DOCUMENT-IDENTIFIER: US 4297324 A

TITLE: Apparatus for the continuous processing of compounds in a liquid

DATE-ISSUED: October 27, 1981

INVENTOR-INFORMATION:

NAME

CITY

ZIP CODE STATE

COUNTRY

Sauvage; Henri

Bagnols sur Ceze

FR

Tarnero; Maurice

Bagnols sur Ceze

FR

US-CL-CURRENT: 422/268; 198/493, 198/778, 209/158, 210/178, 366/227, 376/308, 422/257, 422/260, 976/DIG.275, 976/DIG.278

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